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## C91: For Low Consistency Applications Requiring Higher Wear Resistance

Your low consistency refining application requires the use of low carbon stainless steels to resist bar breakage, but it can also be a very wear intensive process. What are your options? Options include 17-4PH, J&L's C90 or J&L's C91.

### 17-4PH

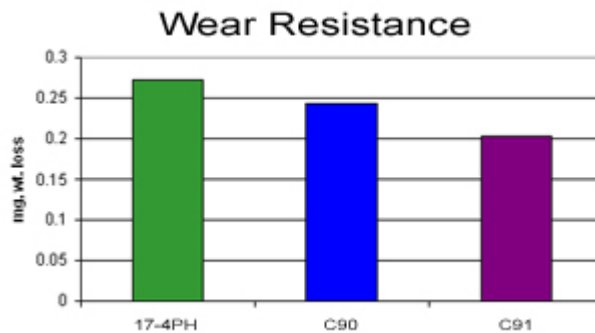
You could go with a 17-4PH alloy, virtually unbreakable, yet it's the least effective of all the alloys when it comes to the resistance to abrasive wear.

### C90

What about J&L's C90 alloy? By now, you've heard us tout the benefits of C90 for low consistency refining applications. C90 is proven and widely accepted to optimize refining performance and greatly increase plate life in applications where breakage and abrasive wear are the major causes of refiner plate failures. C90 is a patented alloy with a hard shell and tough base that matches the fracture resistance of 17-4PH, but offers much greater wear-resistance than 17-4PH. C90 maintains a sharp bar edge which is critical to influencing the development of fiber properties as well as the maintenance of a given quality level over a period of time.

### C91

Whereas, C90 is a great choice and can increase plate life over 17-4PH, C91 boosts higher wear resistance for applications where wear is a major concern... an additional 20% wear resistance over C90.



C91 is also a patented alloy, so we can't get into the details on how it works, but we can share with you the results other mills have experienced.

Mill	Plate Life with Current Alloy	Plate Life with C91	% Life Increase
A	1200 hours	1600 hours	33%
B	12 weeks	14 weeks	17%
C	14 weeks	16 weeks	15%

The mills above also realized a reduction in maintenance costs (fewer plate changes) and a potential increase in machine up-time and productivity.

C91 may be the best option for your low consistency application with high wear. Contact your J&L representative to recommend the best pattern and alloy for your specific needs. Improve the results of your refining process by giving us a call today.

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